	Application No.	Applicant(s)	(N)
	10/718,920	CHI ET AL.	61
Notice of Allowability	Examiner	Art Unit	
· · · · · · · · · · · · · · · · · · ·	Andy Huynh	2818	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is	n this application. If not include unication will be mailed in due	ed course. THIS
1. $igtimes$ This communication is responsive to <u>the Election dated 0</u>	<u>03/03/2005</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-32</u> .			
3. $igotimes$ The drawings filed on <u>29 July 2004</u> are accepted by the $ar{E}$	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Applicati	on No	ition from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the red	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi			IOTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") more (a) ☐ including changes required by the Notice of Draftspeen 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	rson's Patent Drawing Revie r's Amendment / Comment of 1.84(c)) should be written on	or in the Office action of the drawings in the front (not the	e back) of
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MAT T FOR THE DEPOSIT OF BI	ERIAL must be submitted. I OLOGICAL MATERIAL.	Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 03/15/2004) 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material) 6. ☐ Interview 8 Paper No 7. ☐ Examiner's 8. ☒ Examiner's 9. ☐ Other		
		tent Examiner 1 2818	

DETAILED ACTION

Election/Restrictions

Claims 1-16 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 17-32, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 17-32 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the previous Office action is hereby withdrawn.

Accordingly, Claims 1-32 remain pending in the application.

Allowable Subject Matter

Claims 1-32 are allowed.

The following is an examiner's statement of reason for allowance:

Claims 1-16 are allowable over the prior art of record because the prior art of record does not teach or render obvious a strained channel semiconductor device comprises a first deformation in one side of an active area for selectively enhancing or reducing a residual lengthwise stress in a channel by producing additional lengthwise tensile or compressive force in the active area, and in combination with all other features as recited in independent claim 1.

Claims 17-31 are allowable over the prior art of record because the prior art of record does not teach or render obvious a method of selectively enhancing or reducing carrier mobility in a strained channel semiconductor device, the method comprises forming a first deformation in

one side of an active area to selectively enhance or reduce a residual lengthwise stress in a channel by producing additional lengthwise tensile or compressive force in the active area, and in combination with all other features as recited in independent claim 17.

Claim 32 is allowable over the prior art of record because the prior art of record does not teach or render obvious a method of selectively enhancing or reducing carrier mobility in each of several zones of a channel disposed in an active area of a strained channel semiconductor device fabricated in and on a generally planar semiconductor segment, the method comprises forming one or more deformations in one or more of the sides of the active area to selectively enhance or reduce a residual lengthwise stress in selected zones of the channel by producing additional lengthwise tensile or compressive force in the respective zones, and in combination with all other features as recited in independent claim 32.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy Huynh whose telephone number is (571) 272-1781. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ah

Andy Huynh

and Must

04/12/05

Patent Examiner